This listing of the claims replaces any and all prior versions and listings of claims in the application:

LISTING OF THE CLAIMS

- 1. (currently amended) A composition comprising a biologically active compound[[,]] and a transport moiety[,]] and a linker capable of self-immolation linking the biologically active compound and the transport moiety, wherein the transport moiety comprises a structure selected from the group consisting of (ZYZ), Z, (ZYY), Z, (ZYY), Z, (ZYY), Z and (ZYYY), Z, wherein each Z is L-arginine or D-arginine, and each Y is independently an amino acid that does not comprise an amidino or guanidino moiety, and wherein n is an integer of from 2 to 10 and m is an integer from 3 to 10.
- 2. (original) The composition according to claim 1, wherein each Y is independently selected from the group consisting of alanine, cysteine, aspartic acid, glutamic acid, phenylalanine, glycine, histidine, isoleucine, lysine, leucine, methionine, asparagine, proline, glutamine, serine, threonine, valine, tryptophan, hydroxyproline, tyrosine, γ-amino butyric acid, β-alanine, sarcosine and ε-amino caproic acid.
- 3. (withdrawn) The composition according to claim 1, wherein the transport moiety comprises the structure $(ZYZ)_nZ$, and wherein n is an integer ranging from 2 to 5.
- (currently amended) The composition according to claim 1, wherein the transport
 moiety comprises the structure (ZY)_nZ (ZY)_mZ, and wherein [[n m]] is an integer ranging from 4
 to 10.
- 5. (withdrawn) The composition according to claim 1, wherein the transport moiety comprises the structure (ZYY)₀Z, and wherein n is an integer ranging from 4 to 10.

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6. (withdrawn) The composition according to claim 1, wherein the transport moiety

comprises the structure (ZYYY)_nZ, and wherein n is an integer ranging from 4 to 10.

7. Canceled

- 8. (original) The composition according to claim 1, wherein Y is a gene-encoded amino acid
- (withdrawn) The composition according to claim 1, wherein Y is an amino acid other than a gene-encoded amino acid.
- 10. (withdrawn) The composition according to claim 3, wherein each Y is independently selected from the group consisting of glycine, γ -amino butyric acid, β -alanine and ϵ -amino caproic acid, and n is 3 or 4.
- (currently amended) The composition according to claim 4, wherein each Y is
 independently selected from the group consisting of glycine, γ-amino butyric acid, β-alanine and
 ε-amino caproic acid, and [[n m]] is 6, 7 or 8.
- (withdrawn) The composition according to claim 5, wherein each Y is independently selected from the group consisting of glycine, γ-amino butyric acid, β-alanine and ε-amino caproic acid, and n is 6, 7 or 8.
- 13. (withdrawn; previously presented) The composition according to claim 6, wherein each Y is independently selected from the group consisting of glycine, γ-amino butyric acid, β-alanine and ε-amino caproic acid, and n is 6, 7 or 8.
- 14. (withdrawn; previously presented) The composition according to claim $7\underline{1}$, wherein the conjugate has the following structure:

wherein:

R1 is the biologically active compound;

X is a linkage between a functional group on the biologically active compound and a functional group on the linker between R^1 and R^3 ;

Q is a linkage between a functional group on the transport moiety and a functional group on the linker between R¹ and R³;

A is N or CH:

R2 is hydrogen, alkyl, aryl, arylalkyl, acyl or allyl;

R3 is the transport moiety:

k and m are independently either 1 or 2; and

n is an integer of from 1 to 10.

- 15. (withdrawn; previously presented) The composition according to claim 14, wherein each of X and Q is independently selected from the group consisting of -C(O)O-, -O-C(O)-, -C(O)NH-, -NH-C(O)-, -OC(O)NH-, -S-S-, -C(S)O-, -C(S)NH-, -NHC(O)NH-, -SO₂NH-, -SONH-, phosphate, phosphonate and phosphinate.
- 16. (withdrawn; previously presented) The composition according to claim 14, wherein each of X and Q is independently selected from the group consisting of -C(O)O-, -O-C(O)-, -C(O)NH-, -NH-C(O)-, -OC(O)NH- and -NHC(O)NH-.
- 17. (withdrawn; previously presented) The composition according to claim 1, wherein the conjugate has the following structure:

wherein:

R1 is the biologically active compound;

X is a linkage between a functional group on the biologically active compound and a functional group on the linker between R^1 and R^3 ;

Q is a linkage between a functional group on the transport moiety and a functional group on the linker between R^1 and R^3 :

R³ is the transport moiety:

R4 is S, O, NR6 or CR7R8:

R5 is OH, SH, NHR6, or -CONH2;

R6 is hydrogen, alkyl, aryl, arylalkyl, acyl or allyl;

R7 and R8 are independently hydrogen, alkyl or arylalkyl; and

k and m are independently either 1 or 2.

- 18. (withdrawn; previously presented) The composition according to claim 17 wherein each of X and Q is independently selected from the group consisting of -C(O)O-, -O-C(O)-, -C(O)NH-, -NH-C(O)-, -OC(O)NH-, -S-S-, -C(S)O-, -C(S)NH-, -NHC(O)NH-, -SO₂NH-, -SONH-, phosphate, phosphonate and phosphinate.
- 19. (withdrawn; previously presented) The composition according to claim 17, wherein each of X and Q is independently selected from the group consisting of -C(O)O-, -O-C(O)-, -C(O)NII-, -NH-C(O)-, -OC(O)NH- and -NHC(O)NII-.
- 20. (withdrawn; previously presented) The composition according to claim 7 1, wherein the conjugate has the following structure:

wherein:

R1 is the biologically active compound;

X is a linkage between a functional group on the biologically active compound and a functional group on the linker between R^1 and R^3 ;

Q is a linkage between a functional group on the transport moiety and a functional group on the linker between R¹ and R³:

R³ is the transport moiety;

R5 is H. OH. SH. NHR6, or -CONH2:

R6 is hydrogen, alkyl, aryl, arylalkyl, acyl or allyl; and

k is 1 or 2.

(withdrawn; previously presented) The composition according to claim 20, wherein
each of X and Q is independently selected from the group consisting of -C(O)O-, -O-C(O)-,
-C(O)NH-,

-NH-C(O)-, -OC(O)NH-, -S-S-, -C(S)O-, -C(S)NH-, -NHC(O)NH-, -SO₂NH-, -SONH-, phosphate, phosphonate and phosphinate.

(withdrawn; previously presented) The composition according to claim 20, wherein
each of X and Q is independently selected from the group consisting of -C(O)O-, -O-C(O)-,
-C(O)NH-,

-NH-C(O)-, -OC(O)NH- and -NHC(O)NH-.

23. (withdrawn; previously presented) The composition according to claim $4\underline{1}$, wherein the conjugate has the following structure:

$$\begin{array}{c} O \\ R^1 - X - CH_2 - Ar - O - \overset{O}{C} - (CH_2)_{\overset{..}{K}} - R^4 - (CH_2)_{\overset{..}{m}} - \overset{C}{\overset{..}{C}} - Q - R^3 \end{array}$$

wherein:

R1 is the biologically active compound;

X is a linkage between a functional group on the biologically active compound and a functional group on the linker between R^1 and R^3 ;

Q is a linkage between a functional group on the transport moiety and a functional group on the linker between R¹ and R³;

Ar is a substituted or unsubstituted aryl group, wherein the methylene and oxygen substituents are either *ortho* or *para* to one another;

R3 is the transport moiety;

R4 is S. O. NR6 or CR7R8:

R5 is H, OH, SH, CONHR6 or NHR6;

R⁶ is hydrogen, alkyl, aryl, arylalkyl, acyl or allyl;

R7 and R8 are independently hydrogen or alkyl; and,

k and m are independently either 1 or 2.

- 24. (withdrawn; previously presented) The composition according to claim 23, wherein each of X and Q is independently selected from the group consisting of -C(O)O-, -O-C(O)-, -C(O)NH-, -NH-C(O)-, -OC(O)NH-, -S-S-, -C(S)O-, -C(S)NH-, -NHC(O)NH-, -SO₂NH-, -SONH-, phosphate, phosphonate and phosphinate.
- 25. (withdrawn; previously presented) The composition according to claim 23, wherein each of X and Q is independently selected from the group consisting of -C(O)O-, -O-C(O)-, -C(O)NH-, 2NH-C(O)-, -OC(O)NH- and -NHC(O)NH-.
- 26. (withdrawn; previously presented) The composition according to claim 16, wherein A is N, \mathbb{R}^2 is benzyl, k, m and n are 1, and X is -OC(O)-.
- 27. (withdrawn; previously presented) The composition according to claim 19, wherein R^4 is S, R^5 is NHR^6, R^6 is hydrogen, methyl, allyl, butyl or phenyl, k and m are 1 and X is OC(O)-.
- 28. (withdrawn; previously presented) The composition according to claim 22, wherein R^5 is NHR⁶, R^6 is hydrogen, methyl, allyl, butyl or phenyl, k is 2 and X is -OC(O)-.
- 29. (withdrawn; previously presented) The composition according to claim 25, wherein Ar is an unsubstituted aryl group, R⁴ is S, R⁵ is NHR⁶, R⁶ is hydrogen, methyl, allyl, butyl or phenyl, k and m are 1 and X is -OC(O)-.

30. (withdrawn; currently amended) A method for increasing the transport of a biologically active compound across a biological membrane comprising:

administering a composition comprising a biologically active compound[[,]] and a transport moiety[[,]] and a linker capable of self-immolation linking the biologically active compound and the transport moiety, wherein the transport compound comprises a structure selected from the group consisting of $(ZYZ)_nZ$, $(ZY)_nZ$, $(ZY)_nZ$, $(ZYY)_nZ$, and $(ZYYY)_nZ$, wherein Z is L-arginine or D-arginine, and wherein Y is an amino acid that does not comprise an amidino or guanidino moiety, and wherein n is an integer ranging from 2 to 10 and m is an integer ranging from 3 to 10.

wherein transport of the biologically active biologically active compound across the biological membrane is increased relative to transport of the biologically active compound in the absence of said transport moiety.

- 31. (withdrawn; previously presented) The method according to claim 30, wherein the biologically active compound is attached to the transport moiety by a linking moiety to form a conjugate.
- 32. (withdrawn; previously presented) The method of claim 31, wherein the conjugate has the following structure:

wherein:

R1 is the biologically active compound;

X is a linkage between a functional group on the biologically active compound and a functional group on the linker between \mathbb{R}^1 and \mathbb{R}^3 ;

Q is a linkage between a functional group on the transport moiety and a functional group on the linker between R^1 and R^3 ;

A is N or CH;

R2 is hydrogen, alkyl, aryl, arylalkyl, acyl or allyl;

R3 is a transport moiety;

k and m are independently either 1 or 2; and

n is an integer of from 1 to 10.

33. (withdrawn; previously presented) The method of claim 31, wherein the conjugate has the following structure:

wherein.

R1 is the biologically active compound:

X is a linkage between a functional group on the biologically active compound and a functional group on the linker between R¹ and R³;

Q is a linkage between a functional group on the transport moiety and a functional group on the linker between R^1 and R^3 ;

R3 is a transport moiety;

R⁴ is S. O. NR⁶ or CR⁷R⁸:

R5 is OH, SH, NHR6, or -CONH2;

R⁶ is hydrogen, alkyl, aryl, arylalkyl, acyl or allyl;

R7 and R8 are independently hydrogen, alkyl or arylalkyl; and

k and m are independently either 1 or 2.

34. (withdrawn; previously presented) The method of claim 31, wherein the conjugate has the following structure:

$$R^{1}-X-(CH_{2})_{k}-\overset{R^{5}}{\underset{H}{C}}-Q-R^{3}$$

wherein:

R1 is the biologically active compound;

X is a linkage between a functional group on the biologically active compound and a functional group on the linker between R^1 and R^3 ;

Q is a linkage between a functional group on the transport moiety and a functional group on the linker between R^1 and R^3 ;

R3 is the transport moiety;

R5 is H. OH. SH. NHR6, or -CONH2:

R6 is hydrogen, alkyl, aryl, arylalkyl, acyl or allyl; and

k is 1 or 2.

35. (withdrawn; previously presented) The method of claim 31, wherein the conjugate is of the following structure:

$$\begin{array}{c} O \\ R^1 - X - CH_2 - A_1 - O - C - (CH_2)_{k} - R^4 - (CH_2)_{m} - C - Q - R^3 \end{array}$$

wherein:

R1 is the biologically active compound;

X is a linkage between a functional group on the biologically active compound and a functional group on the linker between R^1 and R^3 ;

Q is a linkage between a functional group on the transport moiety and a functional group on the linker between R^1 and R^3 :

Ar is a substituted or unsubstituted aryl group, wherein the methylene and oxygen substituents are either *ortho* or *para* to one another:

R3 is the transport moiety:

R4 is S, O, NR6 or CR7R8;

R5 is H, OH, SH, CONHR6 or NHR6;

R⁶ is hydrogen, alkyl, aryl, arylalkyl, acyl or allyl;

R7 and R8 are independently hydrogen or alkyl; and,

k and m are independently either 1 or 2.